



TECHNICAL DATA SHEET

416UNU2102

Class H 180°C Insulation

A series of composites of type 410 Nomex® aramid fiber and Ultem® film laminated with a high temperature polyester adhesive system.

PRODUCT ATTRIBUTES

- Excellent Thermal Stability
- Excellent Mechanical Properties
- Excellent Thermal Conductivity

REPRESENTATIVE PHYSICAL PROPERTIES		
PROPERTY	VALUE	TEST METHOD
NOMINAL THICKNESS, inches	0.014	ASTM D374
YIELD		
Square Yards per Pound	1.41	
Pounds per Square Yard	0.70	
DIELECTRIC STRENGTH (Volts - 2" electrodes)	20,000	ASTM D149
DIELECTRIC CONSTANT (23°C, 50% RH, 60 Hz)	3.2	ASTM D150
TENSILE STRENGTH (psi)		
Machine Direction (MD)	220	ASTM D828
Cross Machine Direction (XMD)	190	
GRAVES TEAR STRENGTH (lbs)		
Machine Direction (MD)	28	ASTM D1004
Cross Machine Direction (XMD)	22	
DISSIPATION FACTOR (23°C, 50% RH, 60 Hz)	0.005	ASTM D150
VOLUME RESISTIVITY (Ohm-cm) (23°C, 50% RH, Ohm-cm)	10 ¹⁵	ASTM 257-66
SURFACE RESISTIVITY (Ohm) (23°C, 50% RH)	10 ¹³	ASTM-257-66

STORAGE

- Shelf life: one (1) year
- Store in a clean area free from exposure to excessive heat, moisture or direct sunlight (50°F to 80°F).

Product performance will vary in each application and is dependent upon composite construction. Alamotape does not guarantee the replication of this data by third parties. None of the data or statements contained herein is intended to warrant the performance of this product. Data is representative and not intended as a manufacturing specification.